

## Utah Weekly Pertussis Update

2014 data, through MMWR week ending April 25, 2015 (MMWR week 16)

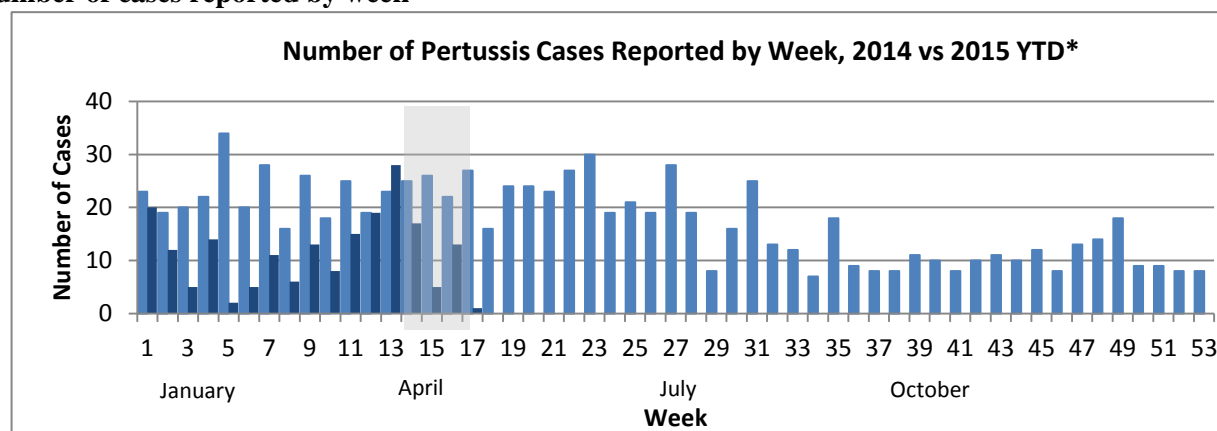
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	194	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years
Number of cases reported in past week	7	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional
Total number of cases reported, through same time period 2014	366	2015 Hospitalizations
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year
	1-4 year	

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	23	50,052	145.8
1-4	41	203,815	63.8
5-14	47	505,598	29.5
15-24	29	469,436	19.6
25-34	14	440,736	10.1
35-44	21	372,699	17.9
45-54	3	305,312	3.1
55-64	13	269,589	15.3
65+	3	283,635	3.4
Total	194	2,900,872	21.2

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

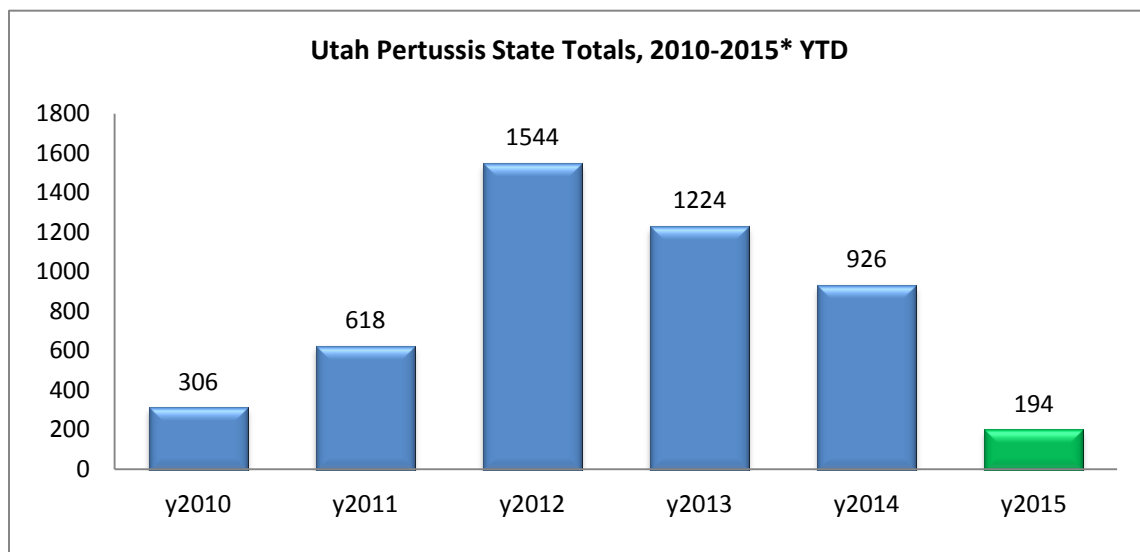
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	81	103,602	248.1
Kindergarten	5	5	53,177	29.8
1	6	6	52,869	36.0
2	7	4	52,063	24.4
3	8	10	51,809	61.3
4	9	5	51,080	31.1
5	10	2	50,567	12.6
6	11	5	48,961	32.4
7	12	3	49,008	19.4
8	13	4	48,884	26.0
9	14	3	47,180	20.2
10	15	7	46,321	48.0
11	16	8	45,914	55.3
12	17	6	44,889	42.4

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



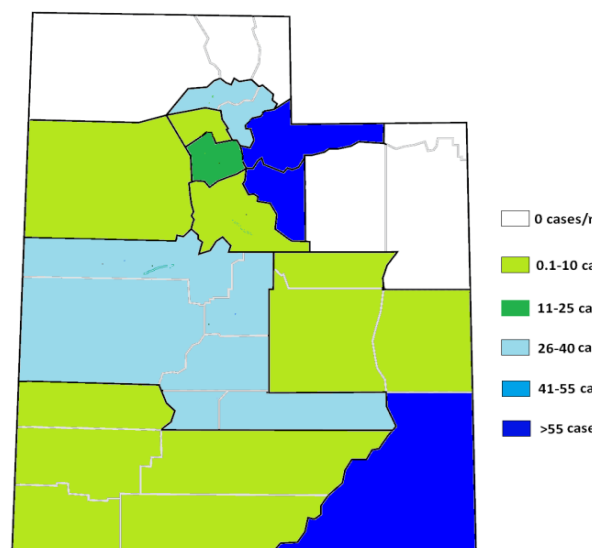
Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	8	33.3
Davis County	9	8.9
Salt Lake Valley	44	12.9
San Juan County	11	233.2
Southeastern Utah	1	7.7
Southwest Utah	2	3.0
Summit County	41	338.1
Tooele County	1	5.2
TriCounty	0	0.0
Utah County	14	8.1
Wasatch County	5	60.0
Weber-Morgan	23	29.4

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates



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21.2
31.9
8.9
5
23





no data

ases per 100,000

ses per 100,000

ses per 100,000

ases per 100,000

es per 100,000